EPA			U	United States Environmental Protection Agency Washington, DC 20460					Work Assignment Number 2-04					
-		•		Work Assignment					Other		mendm	ent Number:		
Contract Numb	ber			Contr	act Period 08/	09/2010 <b>To</b>	07/31/	2015	Title of Work Assignment/SF Site Name					
EP-W-10-	016			Base		Option Period Nu	mber 1		Revisi	ons to	the	SCDM		
Contractor														
COMPUTER	COMPUTER SCIENCES CORPORATION													
Purpose:	Х	Work Assig	ınment			Work Assignment	Close-Out		Period of Performance					
	П	Work Assic	nment Amend	ment		Incremental Fundir	na							
		Work Plan			_		•		From ()	8/01/2	2012 T	<b>o</b> 07	/31/2013	
Matrix" fo	Comments:  The purpose of this action is to initiate new work assignment 2-04 entitled "Revisions to the Superfund Chemical Data Matrix" for Option Pd 1 and adds 4,833 hours of Level of Effort. The Contractor shall submit a Work Plan in accordance with the Contract. Contractor shall be advised that Technical Direction provided under the Base Period WA will be valid under the Option Period WA.													
Su	perfund				Acco	ounting and Appro	priations Data	а				Х	Non-Superfund	
Note: To report additional accounting and appropriations date use EPA Form 1900-69A.  SFO (Max 2)														
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#### **Performance Work Statement**

Work Assignment Number: 2-04

I. ADMINISTRATIVE

A. Title: Revisions to the Superfund Chemical Data Matrix

B. Work Assignment Manager: David Yogi

**US EPA** 

OSRTI (5204P)

1200 Pennsylvania Ave. NW Washington DC, 20460

Work: (703) 347-8835, Fax (703) 603-9119

e-mail: yogi.david@epa.gov

**Alternate Work Assignment Manager:** Robert Myers

US EPA

OSRTI (5204P)

1200 Pennsylvania Ave. NW

Washington DC, 20460

Work: (703) 603-8851, Fax (703) 603-9119

e-mail: myers.robert@epa.gov

#### C. OBJECTIVE

This work assignment provides technical support to the EPA in the Agency's effort to revise values included in the Superfund Chemical Data Matrix (SCDM). The tasks included in the work assignment are conforming changes to align SCDM values with current science associated with the 2003 Regional Screening Levels for Chemical Contaminants at Superfund Sites.

#### D. BACKGROUND

The Superfund Chemical Data Matrix (SCDM) is a source for factor values and benchmark values applied when evaluating potential National Priorities List (NPL) sites using the Hazard Ranking System (HRS). Factor values are part of the HRS mathematical equation for determining the relative threat posed by a hazardous waste site and reflect hazardous substance characteristics, such as toxicity and persistence in the environment, substance mobility and potential for bioaccumulation. Benchmarks are environment or health-based substance concentration limits developed by or used in other EPA regulatory programs. SCDM contains HRS factor values and benchmark values for hazardous substances that are frequently found at sites evaluated using the HRS, as well as the physical, chemical, and radiological data used to calculate those values.

On January 28, 2004, the EPA released an updated SCDM with many revisions to the HRS factor values and benchmarks. These revisions were necessary both because of updates in the

SCDM procedures used to assign HRS factor values and benchmarks and because of revisions to pertinent standards and criteria for individual hazardous substances and their associated characteristics.

Work Assignment 2-01, Task 7, provides for periodic evaluation and/or updates of SCDM values for particular substances. Under that task, EPA recently requested an update of 50 volatile contaminants. However, EPA has since determined that the remaining approximately 170 substance values need to be updated. Since this effort has outgrown the original intent of WA 2-01, Task 7, EPA is initiating this new work assignment to cover the full approximately 220 SCDM updates. Periodic evaluations and/or updates of individual substances during QA review of HRS documentation records will continue to be performed under WA 2-01, Task 7, as needed.

## E. Quality Assurance:

The tasks in this assignment require the use of secondary data. Collection, use and analysis of data will governed by procedures described in a quality assurance project plan (QAPP) and consistent with the Agency's quality assurance (QA) requirements. The project specific quality assurance requirements must be addressed in the monthly progress reports.

#### II. TASK DETAIL

The contractor shall perform the following tasks:

## Task 0 — Work Plan and Budget Development

The contractor shall prepare a detailed work plan and budget for the accomplishment of the indicated tasks in accordance with the clause *Work Assignments* (EPAAR 1552.211-74), Alternate I. The work plan shall include cost estimates a description of: (a) proposed staff; (b) the number of hours and labor classifications proposed for each task, to include both prime contractor and subcontractor labor; and (c) a list of deliverables, with due dates and schedule for deliverables. This task also includes weekly telephone conferences between the WAM and the project manager, to coordinate and confirm task performance. The contractor shall also submit monthly progress and financial reports pursuant clause, F.2, MONTHLY PROGRESS REPORT (EPAAR 211-70)

Prior to initiating any action under technical direction, the EPA WAM shall ensure that the technical direction falls within the scope of work for this Work Assignment.

#### Task 1 — Revision of SCDM Benchmarks

The contractor shall revise all (approximately 220) SCDM benchmarks for:

- HRS factor values (e.g., toxicity, mobility)
- SCDM contaminant benchmark values
- Physical, chemical and radiological data used to calculate SCDM values

The contractor shall evaluate and update SCDM values for particular substances by reviewing current references and databases, searching for new data sources, reviewing risk exposure

assumptions, reviewing current algorithms and laws, and regulations/rules on benchmark-setting criteria.

Additionally, in revising SCDM benchmarks, the contractor shall utilize human health toxicity values from the following sources in this order:

- EPA's Integrated Risk Information System (IRIS)
- The Provisional Peer Reviewed Toxicity Values (PPRTVs) derived by EPA's Superfund Health Risk Technical Support Center (STSC) for the EPA Superfund program.
- The Agency for Toxic Substances and Disease Registry (ATSDR) minimal risk levels (MRLs)
- The California Environmental Protection Agency (OEHHA) Office of Environmental Health Hazard Assessment's Chronic Reference Exposure Levels (RELS) from December 18, 2008 and the Cancer Potency Values from July 21, 2009.
- PPRTV appendix screening toxicity values.
- The EPA Superfund program's Health Effects Assessment Summary (HEAST).

Finally, the contractor shall also develop benchmarks for air inhalation exposures for all SCDM contaminants using a methodology which is consistent with the Risk Assessment Guidance for Superfund (RAGS), Part F, 2009, which uses neither body weight nor inhalation rates.

## III. SCHEDULE OF DELIVERABLES

The deliverables shall be due as stated below. The contractor shall provide the WAM all deliverables and drafts in electronic format only. Electronic files must also be provided upon completion of the Work Assignment.

	<u>Deliverable</u>	<u>Due Date</u>
Task 0:	Work Plan	Within 20 days after receipt of Work Assignment.
	Monthly Progress Report	15 <sup>th</sup> of each month.
Task 1:	Revise SCDM Benchmarks Support	Will be specified by WAM.

#### IV. MISCELLANEOUS

## **Software Application Files and Accessibility**

Software Application files, if delivered to the Government, shall conform to the requirements relating to accessibility as detailed to the 1998 amendments to the Rehabilitation Act, particularly, but not limited to, § 1194.21 Software applications and operating systems and § 1194.22 Web-based intranet and internet information and applications. See: http://www.section508.gov/

Preferred text format: MS Word, 8.0 or higher (Office 2003 or higher)

Preferred presentation format: Power Point, Office 2003 or higher

Each graphic is an individual GIF file Adobe Acrobat, version 6.0

Preferred graphics format: Preferred portable format: Preferred chart format: MS Excel/Access for tables

# **APPENDIX A**

# EPA Work Assignment Manager (WAM):

Has overall responsibility for monitoring contractor performance on Work Assignment; also provides written technical direction.

# Task Monitors:

<u>SARDB SCDM Coordinator</u>: The Headquarters contractors will interface with the Site Assessment and Remedy Decisions Branch SCDM coordinator to discuss technical issues related to the aforementioned conforming changes to SCDM.

SARDB SCDM Coordinator Contact Information: Dave Crawford, Ph: (703) 603-8891, <a href="mailto:crawford.dave@epa.gov">crawford.dave@epa.gov</a>

EPA			Ur	United States Environmental Protection Agency Washington, DC 20460					Work Assignment Number 2-04					
	Cr	A		Work Assignment					Other	Χ	Amendm	ent Number:		
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Contract N	lumber			Contra	ct Period 08/	09/2010 <b>To</b>	07/31/	2015	Title of Work Assignment/SF Site Name					
EP-W-1	0-01	6		Base		Option Period Nu	mber 1		Revisi	ons to	the	SCDM		
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Purpose:	Work Assignment Work Assignment Close-Out							Period o	f Performand	e				
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		Work Plan	Approval						From	08/01/2	2012	<b>To</b> 07	/31/2013	
The pur this Wo	Comments:  The purpose of this action is to incorporate Amendment 1. The Contractor shall submit their initial work plan to this Work Assignment based solely/exclusively on Amendment 1 in accordance with the terms of the contract. All other terms and conditions remain unchanged.													
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Project Office	cer Nam	e Emily J	ohnson					Bra	nch/Mail C	ode:				
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								Pho	ne Numbe	r: 202-	564-6	5095		
	(Signature) (Date)						— FAX	FAX Number:						

#### **Performance Work Statement**

Work Assignment Number: 2-04

I. ADMINISTRATIVE

A. Title: Revisions to the Superfund Chemical Data Matrix

B. Work Assignment Manager: David Yogi

**US EPA** 

OSRTI (5204P)

1200 Pennsylvania Ave. NW Washington DC, 20460

Work: (703) 347-8835, Fax (703) 603-9119

e-mail: yogi.david@epa.gov

**Alternate Work Assignment Manager:** Robert Myers

US EPA

OSRTI (5204P)

1200 Pennsylvania Ave. NW

Washington DC, 20460

Work: (703) 603-8851, Fax (703) 603-9119

e-mail: myers.robert@epa.gov

#### C. OBJECTIVE

This work assignment provides technical support to the EPA in the Agency's effort to revise values included in the Superfund Chemical Data Matrix (SCDM). The tasks included in the work assignment are conforming changes to align SCDM values with current science associated with the 2003 Regional Screening Levels for Chemical Contaminants at Superfund Sites.

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The Superfund Chemical Data Matrix (SCDM) is a source for factor values and benchmark values applied when evaluating potential National Priorities List (NPL) sites using the Hazard Ranking System (HRS). Factor values are part of the HRS mathematical equation for determining the relative threat posed by a hazardous waste site and reflect hazardous substance characteristics, such as toxicity and persistence in the environment, substance mobility and potential for bioaccumulation. Benchmarks are environment or health-based substance concentration limits developed by or used in other EPA regulatory programs. SCDM contains HRS factor values and benchmark values for hazardous substances that are frequently found at sites evaluated using the HRS, as well as the physical, chemical, and radiological data used to calculate those values.

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SCDM procedures used to assign HRS factor values and benchmarks and because of revisions to pertinent standards and criteria for individual hazardous substances and their associated characteristics.

In 2011, EPA determined that factor values and benchmarks for approximately 220 substances listed in SCDM needed to be reviewed, and if necessary, revised. This work assignment covers this one time review and revision effort that was begun under work assignment 1-04. Work Assignment 2-01, Task 7, will provide for periodic evaluation and/or updates of SCDM values for individual substances as was previously done under work assignment 1-01.

This work assignment also provides for continued development and completion of a modernized and updated SCDM data management tool that was initiated under work assignment 1-04. The current SCDM tool is nearing the end of the support lifecycle of its software platforms and will soon be unusable in its current state.

## E. Quality Assurance:

The tasks in this assignment require the use of secondary data. Collection, use and analysis of data will governed by procedures described in a quality assurance project plan (QAPP) and consistent with the Agency's quality assurance (QA) requirements. The project specific quality assurance requirements must be addressed in the monthly progress reports.

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The contractor shall perform the following tasks:

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Prior to initiating any action under technical direction, the EPA WAM shall ensure that the technical direction falls within the scope of work for this Work Assignment.

#### Task 1 — Revision of SCDM Benchmarks

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- HRS factor values (e.g., toxicity, mobility)
- SCDM contaminant benchmark values
- Physical, chemical and radiological data used to calculate SCDM values

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- PPRTV appendix screening toxicity values.
- The EPA Superfund program's Health Effects Assessment Summary (HEAST).

Finally, the contractor shall also develop benchmarks for air inhalation exposures for all SCDM contaminants using a methodology which is consistent with the Risk Assessment Guidance for Superfund (RAGS), Part F, 2009, which uses neither body weight nor inhalation rates.

## Task 2 — Modernization and Update of SCDM Data Management Tool

The contractor shall modernize and update the SCDM data management tool, incorporating the updated values and equations generated under Task 1. The contractor shall provide a detailed schedule showing projected completion dates for requirements analysis, development, data conversion and testing, and deployment. The contractor shall assume that the requirements for the modernized data management tool will not include significant functionality enhancements from the current SCDM tool

## III. SCHEDULE OF DELIVERABLES

The deliverables shall be due as stated below. The contractor shall provide the WAM all deliverables and drafts in electronic format only. Electronic files must also be provided upon completion of the Work Assignment.

	<u>Deliverable</u>	<u>Due Date</u>
Task 0:	Work Plan	Within 20 days after receipt of Work Assignment.
	Monthly Progress Report	15 <sup>th</sup> of each month.
Task 1:	Revise SCDM Benchmarks	December 31, 2012.

Support

**Task 2:** Detailed Schedule Within 20 days after receipt of Work Assignment.

Completed SCDM Data Management Tool December 31, 2012.

#### IV. MISCELLANEOUS

## Software Application Files and Accessibility

Software Application files, if delivered to the Government, shall conform to the requirements relating to accessibility as detailed to the 1998 amendments to the Rehabilitation Act, particularly, but not limited to, § 1194.21 Software applications and operating systems and § 1194.22 Web-based intranet and internet information and applications. See: http://www.section508.gov/

Preferred text format: MS Word, 8.0 or higher (Office 2003 or higher)

Preferred presentation format: Power Point, Office 2003 or higher Preferred graphics format: Each graphic is an individual GIF file

Preferred portable format: Adobe Acrobat, version 6.0 Preferred chart format: MS Excel/Access for tables

# **APPENDIX A**

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Has overall responsibility for monitoring contractor performance on Work Assignment; also provides written technical direction.

# Task Monitors:

<u>SARDB SCDM Coordinator</u>: The Headquarters contractors will interface with the Site Assessment and Remedy Decisions Branch SCDM coordinator to discuss technical issues related to the aforementioned conforming changes to SCDM.

EPA	Ur	United States Environmental Protection Agency Washington, DC 20460					Work Assignment Number 2-04			
EFA		Work Assignment					Other		ment Number:	
Contract Number		Contract Period 08	/00/0010 <b>T</b>	07/01/0	2015			00000		
EP-W-10-016		0.07	/09/2010 <b>To</b>	07/31/2	2015	Title of Work Assignment/SF Site Name				
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The purpose of this	amendment is	to approve the c	contractor's WE	? and CE da	ited 8/13,	/12.				
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e DCN Budget/ (Max 6) (Max 4			Program Element (Max 9)	Object Class (Max 4)	Amount (D	ollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)	
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Work Assignment Manager Name Davi	d Yogi			Bran	Branch/Mail Code:					
	-			Phoi	ne Number	703-	347-8835			
(Signature)		(Date	)	— FAX	Number:					
Project Officer Name Emily Johns	son			Bran	nch/Mail Cod	de:				
				Pho	ne Number:	703-6	603-8764			
(Signature)		(Date	)	FAX	Number:					
Other Agency Official Name				Bran	nch/Mail Cod	de:				
				Pho	ne Number:					
(Signature)		(Date	)	FAX	Number:					
Contracting Official Name Eric Sch	hermerhorn			Bran	nch/Mail Cod	de:				
				Pho	ne Number:	202-	564-6095			
(Signature)	(Signature) (Date)									

#### **Performance Work Statement**

#### Revised December 2012 to Add Task 3

Work Assignment Number: 2-04

I. ADMINISTRATIVE

A. Title: Revisions to the Superfund Chemical Data Matrix

**B. Work Assignment Manager:** David Yogi

US EPA

OSRTI (5204P)

1200 Pennsylvania Ave. NW Washington DC, 20460

Work: (703) 347-8835, Fax (703) 603-9119

e-mail: yogi.david@epa.gov

**Alternate Work Assignment Manager:** Robert Myers

**US EPA** 

OSRTI (5204P)

1200 Pennsylvania Ave. NW

Washington DC, 20460

Work: (703) 603-8851, Fax (703) 603-9119

e-mail: myers.robert@epa.gov

## C. OBJECTIVE

This work assignment provides technical support to the EPA in the Agency's effort to revise values included in the Superfund Chemical Data Matrix (SCDM). The tasks included in the work assignment are conforming changes to align SCDM values with current science associated with the 2003 Regional Screening Levels for Chemical Contaminants at Superfund Sites.

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In 2011, EPA determined that factor values and benchmarks for approximately 220 substances listed in SCDM needed to be reviewed, and if necessary, revised. This work assignment covers this one time review and revision effort that was begun under work assignment 1-04. Work Assignment 2-01, Task 7, will provide for periodic evaluation and/or updates of SCDM values for individual substances as was previously done under work assignment 1-01.

This work assignment also provides for continued development and completion of a modernized and updated SCDM data management tool that was initiated under work assignment 1-04. The current SCDM tool is nearing the end of the support lifecycle of its software platforms and will soon be unusable in its current state.

## E. Quality Assurance:

The tasks in this assignment require the use of secondary data. Collection, use and analysis of data will governed by procedures described in a quality assurance project plan (QAPP) and consistent with the Agency's quality assurance (QA) requirements. The project specific quality assurance requirements must be addressed in the monthly progress reports.

#### II. TASK DETAIL

The contractor shall perform the following tasks:

## Task 0 — Work Plan and Budget Development

The contractor shall prepare a detailed work plan and budget for the accomplishment of the indicated tasks in accordance with the clause *Work Assignments* (EPAAR 1552.211-74), Alternate I. The work plan shall include cost estimates a description of: (a) proposed staff; (b) the number of hours and labor classifications proposed for each task, to include both prime contractor and subcontractor labor; and (c) a list of deliverables, with due dates and schedule for deliverables. This task also includes weekly telephone conferences between the WAM and the project manager, to coordinate and confirm task performance. The contractor shall also submit monthly progress and financial reports pursuant clause, F.2, MONTHLY PROGRESS REPORT (EPAAR 211-70)

Prior to initiating any action under technical direction, the EPA WAM shall ensure that the technical direction falls within the scope of work for this Work Assignment.

#### Task 1 — Revision of SCDM Benchmarks

The contractor shall revise all (approximately 220) SCDM benchmarks for:

- HRS factor values (e.g., toxicity, mobility)
- SCDM contaminant benchmark values

• Physical, chemical and radiological data used to calculate SCDM values

The contractor shall evaluate and update SCDM values for particular substances by reviewing current references and databases, searching for new data sources, reviewing risk exposure assumptions, reviewing current algorithms and laws, and regulations/rules on benchmark-setting criteria.

Additionally, in revising SCDM benchmarks, the contractor shall utilize human health toxicity values from the following sources in this order:

- EPA's Integrated Risk Information System (IRIS)
- The Provisional Peer Reviewed Toxicity Values (PPRTVs) derived by EPA's Superfund Health Risk Technical Support Center (STSC) for the EPA Superfund program.
- The Agency for Toxic Substances and Disease Registry (ATSDR) minimal risk levels (MRLs)
- The California Environmental Protection Agency (OEHHA) Office of Environmental Health Hazard Assessment's Chronic Reference Exposure Levels (RELS) from December 18, 2008 and the Cancer Potency Values from July 21, 2009.
- PPRTV appendix screening toxicity values.
- The EPA Superfund program's Health Effects Assessment Summary (HEAST).

Finally, the contractor shall also develop benchmarks for air inhalation exposures for all SCDM contaminants using a methodology which is consistent with the Risk Assessment Guidance for Superfund (RAGS), Part F, 2009, which uses neither body weight nor inhalation rates.

## Task 2 — Modernization and Update of SCDM Data Management Tool

The contractor shall modernize and update the SCDM data management tool, incorporating the updated values and equations generated under Task 1. The contractor shall provide a detailed schedule showing projected completion dates for requirements analysis, development, data conversion and testing, and deployment. The contractor shall assume that the requirements for the modernized data management tool will not include significant functionality enhancements from the current SCDM tool

# Task 3 — Implementation and Maintenance of Revised SCDM Benchmarks and Data Management Tool

Task 1 and Task 2 will terminate after deliverable submittals due by December 31<sup>st</sup>. This Task 3 will be used to follow up on and finalize the SCDM benchmark revisions and to implement the data management tool. It is anticipated that maintenance activities after the expiration of this work assignment will revert to WA 2-01.

The contractor shall continue to support EPA in the final revision effort of the SCDM benchmarks. This may include follow up discussions with EPA to answer questions and incorporating changes before the values and methodology are finalized. Once values are updated

and incorporated into the SCDM data management tool, the contractor shall provide reports to replace those currently posted on the SCDM website. The contractor shall also coordinate with HRS site scorers, QuickScore developers, and/or EPA developers of Regional Screening Levels (RSLs) and Preliminary Remediation Goals (PRGs) regarding the updated SCDM values.

The contractor shall provide implementation and maintenance support for the SCDM Data Management Tool. The contractor shall anticipate the need for user support and tool refinements during the early months of implementation, as normal for initial startup after database development.

## III. SCHEDULE OF DELIVERABLES

The deliverables shall be due as stated below. The contractor shall provide the WAM all deliverables and drafts in electronic format only. Electronic files must also be provided upon completion of the Work Assignment.

	<u>Deliverable</u>	<u>Due Date</u>
Task 0:	Work Plan	Within 20 days after receipt of Work Assignment.
	Monthly Progress Report	15 <sup>th</sup> of each month.
Task 1:	Revise SCDM Benchmarks Support	December 31, 2012.
Task 2:	Detailed Schedule	Within 20 days after receipt of Work Assignment.
	Completed SCDM Data Management Tool	December 31, 2012.
Task 3:		Deliverable due dates will be negotiated with contractor prior to the start of work either verbally or via TD, issued by either WAM or alternate.

#### IV. MISCELLANEOUS

## **Software Application Files and Accessibility**

Software Application files, if delivered to the Government, shall conform to the requirements relating to accessibility as detailed to the 1998 amendments to the Rehabilitation Act, particularly, but not limited to, § 1194.21 Software applications and operating systems and § 1194.22 Web-based intranet and internet information and applications. See: http://www.section508.gov/

Preferred text format: MS Word, 8.0 or higher (Office 2003 or higher)

Preferred presentation format: Preferred graphics format: Preferred portable format: Preferred chart format: Power Point, Office 2003 or higher Each graphic is an individual GIF file Adobe Acrobat, version 6.0

MS Excel/Access for tables

# **APPENDIX A**

# EPA Work Assignment Manager (WAM):

Has overall responsibility for monitoring contractor performance on Work Assignment; also provides written technical direction.

# Task Monitors:

<u>SARDB SCDM Coordinator</u>: The Headquarters contractors will interface with the Site Assessment and Remedy Decisions Branch SCDM coordinator to discuss technical issues related to the aforementioned conforming changes to SCDM.

	United States Environmental Protection Agency				Work Assignment Number				
EDA		Washington, DC 20460  Work Assignment							
EPA	Work					Other	X Amenda	nent Number:	
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Contract Number	Contract Period (	08/09/2010 <b>To</b>	07/31/2	2015	Title of Work Assignment/SF Site Name				
EP-W-10-016	Base	Option Period Nur	mber 1		WA2-04	SCDM	Update		
Contractor Specify Section and paragraph of Contract SOW									
COMPUTER SCIENCES CORPORATION									
Purpose: Work Assignment		Period of F	Performano	e					
X Work Assignment Amendment Incremental Funding									
Work Plan Approve	al				From ()	8/01/2	2012 <b>To</b> 07	/31/2013	
Comments: This amendment is to approve	e the contractor's	work plan and cos	st ostimate	undated	1/24/13				
THIS amenament is to approve	s the contractor 3 v	work pran and cos	ot estimate	: updaced	1/24/15.				
X Superfund		Accounting and Approp	oriations Data					Non-Superfund	
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(Signature)		(Date)	)	FAX	Number:				
Project Officer Name Emily Johnson Br					ch/Mail Cod				
PI					ne Number:	703-6	603-8764		
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Other Agency Official Name					ch/Mail Cod				
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(Signature)  Contracting Official Name	hermerhorn	(Date)	)		Number: ch/Mail Cod	do:			
Commonly Chicker Harrie Hill I Co.							561-6005		
	_ F1101	Phone Number: 202-564-6095							